

05/02

## CURRICULUM VITAE

Name: Bruce M. Carlson

Soc. Sec. No.: [REDACTED] 1

### Education:

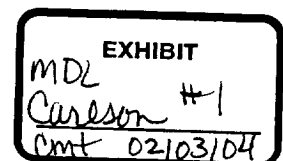
1951-1955 St. Louis Park High School, St. Louis Park, Minn.,  
1955-1959 B.A., Summa cum laude Gustavus Adolphus College, St. Peter, Minn. (Majors: Biology, Languages and Chemistry)  
1959-1960 M.S., Cornell University, Ithaca, New York (Major: Ichthyology; Minor: Embryology and Histology)  
1960-1965 M.D., Ph.D., University of Minnesota, Minneapolis (Major: Anatomy; Minor: Zoology)

### Graduate and Research Fellowships:

NSF Graduate Fellowship 1959-1960  
New York State Museum and Science Service Research Honorarium 1960  
USPHS Graduate Fellowship 1962-1965  
U.S. National Academy of Sciences Exchange with the USSR (Institute of Developmental Biology, Moscow) 1965-1966, 1978  
U.S. National Academy of Sciences Exchange with Czechoslovakia (Institute of Physiology, Prague) May-Sept., 1971  
U.S. National Academy of Sciences Exchange with Czechoslovakia (Institute of Physiology, Prague) Sept.-Oct. 1972  
Fulbright Fellow, Hubrecht Laboratory, Utrecht, Netherlands 1973-74  
U.S. National Academy of Sciences Exchange with Czechoslovakia (Institute of Physiology, Prague) June 1974, May 1975, Sept. 1976, Nov. 1977, Sept. 1978, Oct. 1979, Nov. 1980  
Josiah Macy, Jr. Fellowship to University of Helsinki, 1981-1982  
Fogarty Senior International Fellowship, NIH to University of Otago, New Zealand, 1999-2000

### Academic Appointments:

Assistant Professor of Anatomy, University of Michigan, 1966-1970  
Associate Professor, 1970-1975  
Professor of Anatomy, 1975-  
Professor of Biology, 1979-  
Chairman of Anatomy and Cell Biology 1988-2000  
Research Scientist, Institute of Gerontology 1989-  
Director, Institute of Gerontology 2000-



Teaching Experience:

Microscopic Anatomy  
Medical Embryology  
Developmental Anatomy (Graduate)  
Embryology (Inteflex)  
Regeneration in Vertebrates  
Developmental Biology  
Analysis of Development  
Elementary Anatomy  
Numerous research courses and seminars

Consulting Positions: Fetzner Institute, Kalamazoo

Fellow 1992-96  
Trustee 1997-  
Expert Witness 2000-

Scientific Activities at National, State or Civic Levels:

Co-editor - Monographs in Developmental Biology, S. Karger & Sons  
Co-editor - American Journal of Anatomy  
Co-editor - Experimental Cell Biology  
Co-editor - Ontogenesis  
Co-editor - Cell Transplantation  
Anatomy Editor - Encyclopedia Americana  
Editorial Board - Basic and Applied Myology  
Study Commission on Man, Medicine and Theology - Lutheran Church in America, 1969-1972,  
1979-1981  
Life Sciences Review Panel - Fulbright-Hayes Program, 1976-1979. Chairman, 1979  
Advisory Committee on USSR & Eastern Europe - U.S. National Academy of Sciences, 1977-1981  
American Association of Anatomists, Morphogenesis Club - organizing committee, 1976-1978  
Misc. symposium planning committees  
V.A. Advisory Committee on Regeneration Research, 1982-, Chairman, 1990  
NASA consultant on developmental biology in space, 1984-1985  
N.A.S.-N.R.C. Committee on developmental biology in space, 1984-1985  
Association of Anatomy Chairmen, Executive Committee, 1990-1992  
Association of Anatomy, Cell Biology & Neurobiology Chairpersons, President, 1995  
American Association of Anatomists  
Executive Committee, 1993-1997  
President 1997-1999  
Finance Committee, 1999-2001  
Membership Committee, 1999-2001  
Awards Committee, 1999-2001  
Nominating Committee, 2002  
American Society of Zoologists, 1966-1990, Chairman of Developmental Biology Division, 1986  
National Board of Medical Examiners, 1994-1996  
FASEB Summer Research Conferences Board, 1995-1998  
Biomedical Caucus, 1994-1995

Anatomical Record Task Force, Chair, 1997-1998  
FASEB Publications Committee 1999-  
European Union Muscle Aging Research Group, 2000-

Grant reviewing:

NIH - Misc. Study Sections, ad hoc  
NSF  
National Foundation - March of Dimes  
Medical Research Council of Australia  
Veterans Administration  
NASA  
Hong Kong Research Council  
MRC – England  
Czech Academy of Sciences  
Medical Research Council of New Zealand  
Medical Research Council of Ireland

Honors and Awards:

Sigma Xi, Iota Delta Gamma  
First Decade Award for "early achievement", Gustavus Adolphus College, 1969  
AAAS Newcomb-Cleveland Prize for 1972  
Distinguished Alumni Award, Gustavus Adolphus College, 1978  
Fellow, American Association for the Advancement of Science, 1994  
Elizabeth Crosby Award for Basic Science Teaching, University of Michigan, 1995  
Kaiser-Permanente Teaching Award, University of Michigan, 1997  
Listed in Who's Who in America, 1997  
Russian Academy of Natural Sciences, 1998  
Memorial Medal for 650<sup>th</sup> Anniversary, Charles University, Prague, 1999

Society Memberships:

American Association for the Advancement of Science  
Sigma Xi  
American Society of Zoologists  
American Association of Clinical Anatomists  
American Association of Anatomists  
New York Academy of Sciences  
American Society of Ichthyologists and Herpetologists  
Society for Developmental Biology  
International Society of Developmental Biology  
FASEB  
Gerontological Society of America

Ph.D. Students:

Mikel H. Snow, Ph.D. - 1971  
Linda Hsu, Ph.D. - 1971

Gene L. Trupin, Ph.D. - 1973  
Harry G. Goshgarian, Ph.D. - 1975  
Franz S.F. Mong, Ph.D. - 1975  
Patrick W. Tank, Ph.D. - 1976

Sherry L. Rogers, Ph.D. - 1981  
Mark D. Womble, Ph.D. - 1983  
Rachel Must, Ph.D. - 1983  
Frederick J. Carey, Ph.D. - 1985  
Peter Loubert, Ph.D. - 1986  
Kate Stocker, Ph.D. - 1987  
Gregg Phillips, Ph.D. - 1987  
Lynn Billington, Ph.D. - 1995  
Robert Phillips, Ph.D. - 1995  
Hema Rengen

Postdoctoral Fellows and Visiting Scholars:

Susan D. Hill - 1969  
Shahzad H. Mufti - 1974-75, 1980-81  
Fay M. Hansen-Smith - 1975-77  
David M. Bader - 1978-80  
Mary R. Coan - 1978-81  
Victor I. Mitashov - 1981, 1987  
Danyun Lu - 1983-84  
Steinar Okland - 1986-1987  
Milos Grim - 1987  
Yves Thouveny - 1988  
Christine Viguie - 1991-1994  
Da-Xing Lu - 1992-93  
Andrei Borisov - 1994-  
Mohammad Jamali - 1994-1996  
Huang Shi-Kai - 1994-1995  
Joseph Nnodim - 1996-2000  
Eduard Dedkov - 1996-  
Tatiana Kostrominova-1998-  
Ameed Raoof - 1998

Committee and Administrative Services:

Anatomy Department:

Committee on Graduate Instruction - Chairman  
Animal Care Committee - Chairman  
Seminar Committee - Chairman  
Graduate Board  
Graduate Review and Promotions Committee - Chairman  
Research Committee - Chairman  
Recruitment Committee  
Promotions Committee

- Executive Committee
- Space Committee
- Internal Review Committee - Chairman
- Medical Library consultant
- Baker Memorial Lecture Committee - Chairman

Division of Biological Sciences:

- Graduate Admissions Committee
- Awards Committee
- Curriculum Committee
- Executive Committee

Medical School:

- Faculty Conference on Curriculum
- Ad Hoc Committee to Develop Medical Scientist Training Program
- Review Committee for Behavioral and Neurosciences Course-Co-chairman
- Review Committee for Psychiatry Department
- Miscellaneous Inteflex committees
- Operating Committee, Medical Scientist Training Program
- External Review Committee for Anatomy and Cell Biology Department
- Faculty Grievance Panel
- Search Committee for Anatomy Chairman
- Executive Committee
- Academic Program Advisory Committee
- Steering Committee and Advisory Committee - Program on Organogenesis
- Library Committee

Institute of Gerontology

- Director
- Executive Committee
- Seminar Committee
- Shock Center Steering Committee
- External Advisory Committee

University:

- Ad Hoc Committee on a University Program for Students in the Biomedical Sciences
- Divisional Board - Graduate School
- Supervising Committee - Program on Medical and Biological Illustration
- Miscellaneous search and review committees related to Center for Human Growth and Development
- Dental Research Institute - Scientific Advisory Committee
- Neurosciences Review Committee
- Theatre Department Review Committee
- Developmental Biology Training Program-Director
- International Studies Advisory Council
- Research Computing Policy Committee
- Research Computing Advisory Committee
- Nathan Shock Center of Excellence Steering Committee

Rodent Research Resources Committee

Community Services:

Ann Arbor Symphony - 1967-1973

Trinity Lutheran Church - Vestry, 1973-1980; Adult Education Committee, Chairman, 1976-1980; Council, 1992-1996; Endowment Board, 1999-

Peace Neighborhood Center - Property Committee, 1976-1981

Loch Alpine Lakes Committee, 1993-

Loch Alpine Board, 1997-2000

Research Support

Carlson, B.M., P.I. NIH PO1 AG10821-6-10 Muscle Denervation and Regeneration: Influence of Aging. Project Director. 01/01/98-6/30/03. TC \$5,013,279.

Faulkner, J.A., P.I. NIH P30 AG13283 Nathan Shock Center of Excellence, Biology of Aging. Morphology Core Director. DC: \$54,301 for -07 year.  
Research and Development Core Director. DC. \$109,824 for -07 year

Carlson, B.M., P.I. Improving Muscle Power and Mobility of Elderly Men and Women. Michigan Life Sciences Corridor, 09/15-02 – 09/14/05. TDC: \$3,838,082.

## Publications

Completed Publications in Scientific Journals:

- 1961 Carlson, B.M. A chromatographic analysis of the bound amino acids in lamprey muscle. J. Exp. Zool., 147: 43-56.
- 1962 Glass, A.W., W.J. Scidmore and B.M. Carlson. A probe technique for sexing some freshwater fishes. Investigational Report No. 250, Minn. Conservation Dept., 10pp.
- 1966 Carlson, B.M. Inhibition of limb regeneration in adult Triturus viridescens treated with actinomycin D (in Russian). Doklady Akad. Nauk SSSR, 171:229-233.
- 1967 The histology of inhibition of limb regeneration in the newt, Triturus, by actinomycin D. J. Morph., 122:249-263.
- 1967 Carlson, B.M. Studies on the mechanism of implant-induced supernumerary limb formation in urodeles. I. The histology of supernumerary limb formation in the adult newt. J. Exp. Zool., 164:227-242.
- 1967 Carlson, B.M. and C.F. Morgan. Studies on the mechanism of implant-induced supernumerary limb formation in urodeles. The effect of heat treatment, lyophilization and homogenation on the inductive effects of frog kidney. J. Exp. Zool., 164:243-249.
- 1967 Faustov, V.S. and B.M. Carlson. Changes in the levels of ATP and respiration in regenerating axolotl extremities (in Russian). Doklady Akad. Nauk. SSSR, 176:728-730.
- 1968 Carlson, B.M. Regeneration of the completely excised gastrocnemius muscle in the frog and rat from minced muscle fragments. J. Morph., 125:447-472.
- 1968 Carlson, B.M. Ontogenic development and anatomical distribution of a supernumerary limb-inducing factor. Experientia, 24:1064-1066.
- 1968 Carlson, B.M. Regeneration research in the Soviet Union. Anat. Rec., 160:655-674.
- 1969 Carlson, B.M. Inhibition of limb regeneration in the axolotl after treatment of the skin with actinomycin D. Anat. Rec., 163:389-402.
- 1970 Carlson, B.M. The effect of x-irradiation and beryllium nitrate upon implant-induced supernumerary limb formation in the newt. Oncology, 24:31-47.
- 1970 Carlson, B.M. The regeneration of a limb muscle in the axolotl from minced fragments. Anat. Rec., 166:423-436.
- 1970 Carlson, B.M. Regeneration of the rat gastrocnemius muscle from sibling and non-sibling fragments. Am. J. Anat., 128:21-32.
- 1970 Carlson, B.M. Relationship between the tissue and epimorphic regeneration of muscles. Am. Zool., 10:175-186.

- 1971 Carlson, B.M. The distribution of supernumerary limb-inducing capacity in tissues of Rana pipiens. *Oncology*, 25:365-371.
- 1972 Carlson, B.M. Muscle morphogenesis in Urodele limb regenerates following removal of the stump musculature. *Devel. Biol.*, 28:487-497.
- 1972 Carlson, B.M. and E. Gutmann. Development of contractile properties of minced muscle regenerates in rats. *Exp. Neurol.*, 36:239-249.
- 1973 Carlson, B.M. The regeneration of skeletal muscle - a review. *Am. J. Anat.*, 137:119-150.
- 1973 Vyskocil, F., B. Carlson and E. Gutmann. Changes in resting membrane potential and contractility of innervated and denervated skeletal muscle free grafts in the rat. *Pflügers Arch.*, 344:181-186.
- 1974 Carlson, B.M. Regeneration from short stumps of the rat gastrocnemius muscle. *Experientia*, 30:275-276.
- 1974 Carlson, B.M., S.E. Civileto and H.G. Goshgarian. Nerve interactions and regenerative processes occurring in newt limbs fused end-to-end. *Devel. Biol.*, 37:248-262.
- 1974 Carlson, B.M. Morphogenetic interactions between rotated skin cuffs and underlying stump tissues in regenerating axolotl forelimbs. *Devel. Biol.*, 39:263-285.
- 1974 Grim, M. and B.M. Carlson. A comparison of morphogenesis of muscles of the forearm and hand during ontogenesis and regeneration in the axolotl (Ambystoma mexicanum). I. Anatomical description of muscles of the forearm and hand. *Z. Anat. Entwickl.-Gesch.*, 145:137-148.
- 1974 Grim, M. and B.M. Carlson. A comparison of morphogenesis of muscles of the forearm and hand during ontogenesis and regeneration in the axolotl (Ambystoma mexicanum). II. The development of muscular pattern in the embryonic and regenerating limb. *Z. Anat. Entwickl.-Gesch.*, 145:149-167.
- 1974 Carlson, B.M. and E. Gutmann. Transplantation and "cross-transplantation" of free muscle grafts in the rat. *Experientia*, 30, 1292-1294.
- 1975a Carlson, B.M. and E. Gutmann. Regeneration in free grafts of normal and denervated muscles in the rat: Morphology and histochemistry. *Anat. Rec.*, 183:47-61.
- 1975b Carlson, B.M. and E. Gutmann. Regeneration in grafts of normal and denervated rat muscles. Contractile properties. *Pflügers Arch.*, 353:215-225.
- 1975 Gutmann, E. and B.M. Carlson. Contractile and histochemical properties of regenerating cross-transplanted fast and slow muscles in the rat. *Pflügers Arch.*, 353:227-239.



- 1975 Richards, C.M., B.M. Carlson and S.L. Rogers. Regeneration of digits and forelimbs in the Kenyan reed frog Hyperolius viridiflavus ferniquei. J. Morphol., 146:431-445.
- 1975 Carlson, B.M. Multiple regeneration from axolotl limb stumps bearing cross-transplanted minced muscle regenerates. Devel. Biol., 45:203-208.
- 1975 Gutmann, E. and B.M. Carlson. A comparison between the free grafting of sliced and intact muscles in the rat. Experientia, 31:848-849.
- 1975 Carlson, B.M. The effects of rotation and positional change of stump tissues upon morphogenesis of the regenerating axolotl limb. Devel. Biol., 47:269-291.
- 1976 Gutmann, E. and B.M. Carlson. Regeneration and transplantation of muscles in old rats and between young and old rats. Life Sciences, 18:109-114.
- 1976 Carlson, B.M. and E. Gutmann. Contractile and histochemical properties of sliced muscle grafts regenerating in normal and denervated rat limbs. Exp. Neurol., 50:319-329.
- 1976 Faulkner, J.A., L.C. Maxwell, S.A. Mufti and B.M. Carlson. Skeletal muscle fiber regeneration following heterotopic autotransplantation in cats. Life Sciences, 19:289-296.
- 1976 Carlson, B.M. A quantitative study of muscle fiber survival and regeneration in normal, predenervated, and Marcaine-treated free muscle grafts in the rat. Exp. Neurol., 52:421-432.
- 1976 Carlson, B.M. and E. Gutmann. Free grafting of the extensor digitorum longus muscle in the rat after Marcaine pretreatment. Exp. Neurol., 53:82-93.
- 1976 Carlson, B.M. and S.L. Rogers. Satellite cells in the limb musculature of the axolotl. Folia Morph. (Praha), 24:359-361.
- 1976 Gutmann, E. and B.M. Carlson. Innervation of free muscle grafts in the rat in the absence of mechanical trauma to surrounding muscles or nerves. Life Sciences, 19:649-656.
- 1976 Tank, P.W., B.M. Carlson and T.G. Connelly. A staging system for forelimb regeneration in the axolotl, Ambystoma mexicanum. J. Morph., 150:117-128.
- 1977 Carlson, B.M. Inhibition and axial deviation of limb regeneration in the newt by means of a digit implanted into the amputated limb. J. Morph., 154:223-242.
- 1977 Mufti, S.A., B.M. Carlson, L.C. Maxwell and J.A. Faulkner. The free grafting of entire limb muscles in the cat: morphology. Anat. Rec., 188:417-430.
- 1977 Richards, C.M., B.M. Carlson, T.G. Connelly, S.L. Rogers and E. Ashcraft. A scanning electron microscopic study of differentiation of the digital pad in regenerating digits of the Kenyan reed frog, Hyperolius viridiflavus ferniquei. J. Morph., 153:387-396.

- 1977 Tank, P.W., B.M. Carlson and T.G. Connelly. A scanning electron microscopic comparison of the development of embryonic and regenerating limbs in the axolotl. *J. Exp. Zool.*, 201:417-430.
- 1977 Wagner, K.R., B.M. Carlson and S.R. Max. Developmental patterns of glycolytic enzymes in regenerating skeletal muscles after autogenous free grafting. *J. Neuro. Sci.*, 34:373-390.
- 1978 Carlson, B.M. A review of muscle transplantation in mammals. *Phys. Bohemoslov.*, 27:387-400.
- 1978 Carlson, B.M. A comparison between embryonic development and regeneration of the amphibian limb. In: *Proc. XIX Morphol. Congr. 1976* (ed. E. Klika), pp.135-140. Praha, Univ. Karlova.
- 1978 Grim, M. and B.M. Carlson. Morphogenesis of muscle primordia in aneurogenic limbs of the axolotl (*Ambystoma mexicanum*). In: *Proc. XIX Morphol. Congr. 1976* (ed. E. Klika), pp. 127-134. Praha, Univ. Karlova.
- 1978 Gutmann, E. and B.M. Carlson. The regeneration of a hormone-sensitive muscle (levator ani) in the rat. *Exp. Neurol.*, 58:535-548.
- 1978 Gutmann, E. and B.M. Carlson. Transposition of the soleus into the bed of the extensor digitorum longus muscle in the rat. *Neurosci. Lett.*, 9:1-6.
- 1978 Markley, J.M., J.A. Faulkner and B.M. Carlson. Regeneration of skeletal muscle after grafting in monkeys. *Plastic Reconstr. Surg.*, 62:415-422.
- 1978 Carlson, B.M. Types of morphogenetic phenomena in vertebrate regenerating systems. *Am. Zool.*, 18:869-882.
- 1979 Carlson, B.M., K.R. Wagner and S.R. Max. Reinnervation of rat extensor digitorum longus muscles after free grafting. *Muscle & Nerve*, 2:304-307.
- 1979 Grim, M. and B.M. Carlson. The formation of muscles in regenerating limbs of the newt after denervation of the blastema. *J. Embryol. Exp. Morph.*, 54:99-111.
- 1979 Hansen-Smith, F.M. and B.M. Carlson. Cellular responses to free grafting of the extensor digitorum longus muscle of the rat. *J. Neuro. Sci.*, 41:149-173.
- 1979 Carlson, B.M., A. Herbrychova and E. Gutmann. Retention of hormonal sensitivity in free grafts of the levator ani muscle. *Exp. Neurol.*, 63:94-107.
- 1980 Basson, M.D. and B.M. Carlson. Myotoxicity of single and repeated injections of mepivacaine (Carbocaine) in the rat. *Anesth. Analg.*, 59:275-282.
- 1980 Hansen-Smith, F.M., B.M. Carlson and K.L. Irwin. Revascularization of the freely grafted extensor digitorum longus muscle in the rat. *Am. J. Anat.*, 158:65-82.

- 1980 Foster, A.H., and B.M. Carlson. Myotoxicity of local anesthetics and regeneration of the damaged muscle fibers. *Anesth. Analg.*, 58:727-736.
- 1981 Rogers, S.L. and B.M. Carlson. A quantitative assessment of muscle spindle formation in reinnervated and non-reinnervated grafts of the rat extensor digitorum longus muscle. *Neuroscience*, 6:87-94.
- 1981 Magon, D.K., M.D. Basson and B.M. Carlson. Histochemical patterns of dehydrogenase activity in the development of free muscle grafts in the rat. *Anat. Rec.*, 199:341-347.
- 1981 Carlson, B.M. Denervation, reinnervation and regeneration of skeletal muscle. *Otolaryngol. Head Neck Surg.*, 89:192-196.
- 1981 Max, S.R., S. Mufti and B.M. Carlson. Cytosolic androgen receptor in regenerating rat levator ani muscle. *Biochem. J.*, 200:77-82.
- 1981 Carlson, B.M. The development of facial muscles and nerves in relation to the Mobius syndrome. *Otolaryngol. Head Neck Surg.*, 89:903-906.
- 1981 Carlson, B.M., P. Hník, S. Tucek, R. Vejsada, D.M. Bader and J.A. Faulkner. Comparison between grafts with intact nerves and standard free grafts of the rat extensor digitorum longus muscle. *Physiol. Bohemoslovaca*, 30:505-513.
- 1982 Carlson, B.M. The regeneration of axolotl limbs covered by frog skin. *Devel. Biol.*, 90:435-440.
- 1982 Carlson, B.M. Morphogenesis of the regenerating amphibian limb (in Russian). *Ontogenez*, 13:339-359.
- 1983 Carlson, B.M., A.H. Foster, D.M. Bader, P. Hník and R. Vejsada. Restoration of full mass in nerve-intact muscle grafts after delayed reinnervation. *Experientia*, 39:171-172.
- 1983 Carlson, B.M. and J.A. Faulkner. The regeneration of skeletal muscle fibers following injury. *Med. and Sci. in Sports and Exercise*, 15:187-198.
- 1984 Carlson, B.M. The formation of supernumerary structures after grafting anterior quail wing bud mesoderm of various ages into chick wing buds. *Devel. Biol.*, 101:97-105.
- 1984 Carlson, B.M. The preservation of the ability of cultured quail wing bud mesoderm to elicit a position-related differentiative response. *Devel. Biol.*, 101:106-115.
- 1985 Faulkner, J.A., and B.M. Carlson. Contractile properties of standard and nerve-intact muscle grafts in the rat. *Muscle and Nerve*, 8:413-418.
- 1985 Rainin, E.A., and B.M. Carlson. Postoperative diplopia and ptosis: A clinical hypothesis based on the myotoxicity of local anesthetics. *Arch. Ophthalmol.*, 103: 1337-1339.
- 1985 Carlson, B.M., and E.A. Rainin. Rat extraocular muscle regeneration: Repair of local anesthetic-induced damage. *Arch. Ophthalmol.*, 103: 1373-1377.

- 1986 Carlson, B.M., B.K. Simandl, K.M. Stocker, T.G. Connelly and John F. Fallon 1986. A method for combined gross skeletal staining and Feulgen staining of embryonic chick tissues. *Stain Technol.*, 61:27-31.
- 1986 Brodsky, V. Ya., B.M. Carlson and A.M. Arefieva Polyploidization of cardiac myocytes as a programmed event of ontogenesis (in Russian). *Ontogeny*, 17(2):138-145.
- 1986 Faulkner, J.A., and B.M. Carlson. Skeletal muscle regeneration: A historical perspective. *Fed. Proc.*, 45:1454-1455.
- 1986 Schwartz, J., J. Wiesen, B. Carlson, L. Yamasaki, M. Moore and M. Womble. Increased phenylalanine incorporation in regenerating skeletal muscle grafts. *Canad. J. Physiol. Pharmacol.*, 64:199-205.
- 1986 Carlson, B.M. Regeneration of entire skeletal muscles. *Fed. Proc.*, 45:1456-1480.
- 1986 Mrázková, O., M. Grim and B.M. Carlson Enzymatic heterogeneity of the capillary bed of rat skeletal muscles. *Am. J. Anat.*, 177:141-148.
- 1986 Grim, M., O. Mrázková and B.M. Carlson Enzymatic differentiation of arterial and venous segments of the capillary level during the development of free muscle grafts in the rat. *Am. J. Anat.*, 177:149-159.
- 1987 Burton, H.W., B.M. Carlson and J.A. Faulkner Microcirculatory adaptation to skeletal muscle transplantation. *Ann. Rev. Physiol.*, 49:439-452.
- 1987 Griffin, K.J.P., D.M. Fekete and B.M. Carlson A monoclonal antibody stains myogenic cells in regenerating newt muscle. *Development*, 101:267-278.
- 1987 Phillips, G.D., D. Lu, V.I. Mitashov and B.M. Carlson Survival of myogenic cells in freely grafted rat rectus femoris and extensor digitorum longus muscles. *Am. J. Anat.*, 180:365-372.
- 1988 Stocker, K.M. and Carlson, B.M. Preservation of the ability of dissociated quail wing-bud mesoderm to elicit a position-related differentiative response. *Amer. J. Anat.*, 182:84-95.
- 1988 Carlson, Bruce M. A test of positional properties of avian wing-bud mesoderm. *Am. J. Anat.*, 182:96-105.
- 1988 Operpriller, J.O., J.C. Operpriller, A.M. Arefyeva, V.I. Mitashov and B.M. Carlson Nuclear characteristics of cardiac myocytes following the proliferative response to mincing of the myocardium of the adult newt. *Cell and Tiss. Res.*, 253:619-624.
- 1988 Carlson, B.M., and J.A. Faulkner. Reinnervation of long-term denervated rat muscle freely grafted into an innervated limb. *Exp. Neurol.*, 102, 50-56.
- 1988 Grim, M., L. Rerábková and B.M. Carlson. A test for muscle lesions and their regeneration following intramuscular drug application. *Toxicol. Pathol.*, 16 (4),432-442.

- 1988 Brodsky, V. Ya, Carlson, B.M., Arefieva, A.M. and Vacilieva, I.A. Polyploidization of transplanted cardiac myocytes. *Cell Different.*, 25, 177-184.
- 1989 Borovikov, Y.S., B. Carlson, N.B. Axenova and P. Loubert. Effect of innervation on the structured state of F-actin in fast muscles of rats. (Russian). *Tsitologiya*, 31:80-84.
- 1989 Økland, S., T.E. Komorowski, and B.M. Carlson. Ultrastructure of mepivacaine-induced damage and regeneration in rat extraocular muscle. *Invest. Ophthalmol. & Vis. Sci.*, 30:1643-1651.
- 1989 Carlson, B.M. and Faulkner, J.A. Muscle transplantation between young and old rats: Age of host determines functional recovery. *Am. J. Physiol.*, 256 (Cell Physiol. 25):C1262-1266.
- 1990 Stocker, K. and B.M. Carlson Hensen's node possesses ZPA activity in the avian embryo. *Roux' Arch.*, 198:371-381.
- 1990 Komorowski, T., Shepard, B., Økland, S. and Carlson, B.M. An electron microscopic study of local anesthetic-induced skeletal muscle fiber degeneration and regeneration in the monkey. *J. Orthoped. Res.*, 8:495-503.
- 1990 Carlson, B.M., B. Shepard, and T.E. Komorowski. A histological study of local anesthetic-induced muscle degeneration and regeneration in the monkey. *J. Orthoped. Res.*, 8:485-494.
- 1990 Brodsky, V. Ya., Carlson, B. and Arefieva, A.M. Similarities and differences of growth of the heart in situ and in transplants. (In Russian). *Ontogenesis*, 21:89-95.
- 1990 Carlson, B.M. Limb muscle regeneration in peripheral nerve autografts-discussion. *Plastic Reconstr. Surg.*, 85:935-936.
- 1990 Grim, M., and B.M. Carlson. Alkaline phosphatase and dipeptidylpeptidase IV staining of tissue components of skeletal muscle - a comparative study. *J. Histochem. Cytochem.*, 38:1907-1912.
- 1991 Blaivas, M., and B.M. Carlson Muscle fiber branching - difference between grafts in old and young rats. *Mech. Aging & Devel.*, 60:43-53.
- 1991 Messina, L.M. and B.M. Carlson. Rapid and complete recovery of responsiveness to adenosine and norepinephrine by regenerating arterioles of the tibialis anterior of the hamster after in situ grafting. *Circ. Res.*, 68:1600-1609.
- 1991 Carlson, E.C., and B.M. Carlson. A method for preparing skeletal muscle fiber basal laminae. *Anat. Rec.*, 230:325-331.
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*Full Titles of Journal Abbreviations in Bibliography:*

AAOS - American Association of Orthopaedic Surgery  
 Am. J. Anat. - American Journal of Anatomy  
 Am. Rev. Physiol. - Annual Review of Physiology  
 Am. Zool. - American Zoologist  
 Anat. Rec. - Anatomical Record  
 Anesth. Analg. - Anesthesia and Analgesia  
 Arch. Ophthalmol. - Archives of Ophthalmology  
 Biochem. J. - Biochemical Journal  
 Devel. Biol. - Developmental Biology  
 Dev. Dyn. -  
 Doklady Akad. Nauk SSSR - Doklady Akademii Nauk SSSR  
 Exp. Neurol. - Experimental Neurology  
 Fed. Proc. - Federation Proceedings  
 Folia Morph. - Folia Morphologica  
 J. Embryol. Exp. Morph. - Journal of Embryology and Experimental Morphology  
 J. Exp. Zool. - Journal of Experimental Zoology  
 J. Gerontol. - Journal of Gerontology  
 J. Morph. - Journal of Morphology  
 J. Neuro. Sci. - Journal of Neurological Sciences  
 Med. and Sci. in Sports and Exercise - Medicine and Science in Sports and Medicine  
 Microcircul. Res. - Microcirculatory Research  
 Mol. Cell. Biol. Res. - Molecular Cell Biology Research  
 Neurosci. Lett. - Neuroscience Letters  
 Otolaryngol. Head Neck Surg. - Otolaryngology, Head and Neck Surgery  
 Pflügers Arch. - Pflügers Archiv  
 Phys. Bohemoslov - Physiologica Bohemoslovaca  
 Plast. Reconstr. Surg. - Plastic and Reconstructive Surgery  
 Stain Technol. - Stain Technology  
 Z. Anat. Entwickl.-Gesch. - Zeitschrift für Anatomie und Entwicklungsgeschichte